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Notice of Allowability	Application No.	Applicant(s)
	10/089,203	AIRD ET AL.
	Examiner	Art Unit
	Eric M. Blount	2636
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. X This communication is responsive to Amendment filed Janu	uary 21, 2005.	
2. X The allowed claim(s) is/are 11-23,25 and 26.		
3. $\boxtimes$ The drawings filed on <u>26 March 2002</u> are accepted by the	Examiner.	
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have  2.  Certified copies of the priority documents have  3.  Copies of the certified copies of the priority documents have  International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>5.  A SUBSTITUTE OATH OR DECLARATION must be subminished part in APPLICATION (PTO-152) which give  1.0  Proper No./Mail Date  (a)  including changes required by the Notice of Draftspers  1)  hereto or 2)  To Paper No./Mail Date  (b)  including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in till 7.  DEPOSIT OF and/or INFORMATION about the deposattached Examiner's comment regarding REQUIREMENT in the company of the priority documents have a comment regarding REQUIREMENT in the company of the priority documents have a comment regarding REQUIREMENT in the company of the priority documents have a company of th</li></ul>	been received.  been received in Application No cuments have been received in this  of this communication to file a reply ENT of this application.  itted. Note the attached EXAMINER as reason(s) why the oath or declara bet be submitted.  con's Patent Drawing Review ( PTO- as Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL resist of BIOLOGICAL MATERIAL resist of BIOLOGICAL MATERIAL resisted in the second of the design of the second of the s	national stage application from the complying with the requirements  'S AMENDMENT or NOTICE OF tion is deficient.  948) attached  Office action of  ngs in the front (not the back) of d).  must be submitted. Note the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendr	te

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## **DETAILED ACTION**

1. The Office acknowledges the changes made to the specification and to the claims. All objections and 35 U.S.C. 112 2<sup>nd</sup> rejections have been withdrawn.

## Allowable Subject Matter

- 2. Claims 11-23 and 25-26 are allowed. The following is an examiner's statement of reasons for allowance:
  - a. As for independent claim 11, the prior art of record neither sufficiently describes, nor otherwise suggests a method for detecting a flame by filtering individual digital images and producing a movement band image which displays changes in the individual images within a predetermined frequency band. The step of filtering further comprising filtering a first generated image at a first frequency and a second generated image at a second frequency, both frequencies falling within the aforementioned predetermined frequency; both filtered images are combined to produce the movement band image.
  - b. Regarding independent claim 12, the prior art of record fails to sufficiently describe or suggest a method for detecting a flame wherein a threshold value is applied to each pixel in each individual image to produce a threshold map and wherein a movement band image comprises a predetermined number of pixels and the threshold map is used to determine a value for each pixel.
  - c. As for independent claim 23, the prior art of records fails to sufficiently describe or suggest a method for detecting a flame comprising the steps of

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developing a threshold map for determining a value for each pixel of individual images and generating an awareness map from the threshold map to detect a sequence of images of flames. The method further comprising allocating an awareness level to each pixel and analyzing a plurality of awareness level values to generate a fire detection indication.

These along with further limitations set forth by the claims render the application allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric M. Blount whose telephone number is (571) 272-2973. The examiner can normally be reached on 8:00 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Hofsass can be reached on (571) 272-2981. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eric M. Blount Examiner Art Unit 2636

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SUPERVISORY PATENT EXAMINER